Title (en)
THERMAL MANAGEMENT WITHIN MOBILE RFID READERS THROUGH THE APPLICATION OF TEMPERATURE GOVERNED VARIABLE NON-EMISSIVE INTERVALS

Title (de)
THERMISCHE REGELUNG BEI MOBILEN RFID-LESERN MITTELS ANWENDUNG TEMPERATURGESTEUERTER VARIABLER NICHT-EMISSIVER INTERVALLE

Title (fr)
GESTION THERMIQUE DANS DES LECTEURS RFID MOBILES PAR L'APPLICATION D'INTERVALLES NON ÉMISSIFS VARIABLES GOUVERNÉS PAR TEMPÉRATURE

Publication
EP 2183700 A1 20100512 (EN)

Application
EP 08797759 A 20080813

Priority
• US 2008072975 W 20080813
• US 84354807 A 20070822

Abstract (en)
[origin: WO2009026059A1] A thermal management system and method to control temperature in an RFID reader is described herein. In particular, by inserting variable periods of inactivity (or latency) at the beginning or at the end of each read cycle, proportional to an instantaneous temperature value of the RFID reader, over-heating and damage of RFID reader electronics is prevented. The RFID reader includes a thermal sensor and determines when the high power RF electronics is enabled. If the RFID reader is in an over-heated condition, it can be turned OFF and during this period any requests received on an interface to the RFID reader to perform a read of tag(s) are not processed.

IPC 8 full level
G06K 7/10 (2006.01); **G06F 1/20** (2006.01); **G06K 7/00** (2006.01); **H05K 7/20** (2006.01)

CPC (source: EP US)
G06F 1/206 (2013.01 - EP US); **G06K 7/0008** (2013.01 - EP US); **G06K 7/10207** (2013.01 - EP US)

Citation (search report)
See references of WO 2009026059A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
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DOCDB simple family (publication)
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DOCDB simple family (application)
US 2008072975 W 20080813; CA 2697083 A 20080813; CN 200880103984 A 20080813; EP 08797759 A 20080813; US 84354807 A 20070822